

392	TGAGGTGGCTTAAGGTGTTGCTGAGCTGATACAGGTTATTCTCTC	451
445	GGAGTGGCCAGGTCTTGGCCAGCAGCCGGCTTGTGCTACAGGTTTAACCTCTCC	504
452	ATTGCGAAAGGATGCTGAGATGCCGCAAATACATGAACTGAGGGTGCATGCTT	511
505	TTTGAAAGGATGCTGAGATGCCGAAATACACAAATGAGGACTCCGTTCT	564
512	TGAATATTGATGCGACCTCTAAATTGTGAAAGCAGTAAAGGCCCTTA	571
565	TGAGAATCTTGTAGTCGGCTTTAAATATGTAAGCCGAAAGACTCTA	624
572	TTAAGGGCCAGCTGGGAAATTAAAGGATTAACAGTATTGATTCTGATTGAA	631
625	CAAACGAGCCGACGAGATAAAAGGTTAACAGGCTGATCTGAGAA	684
632	ACCTGAAACTCTGAGGGTGTCTTAAACCAATTGTCACAGTGAATGTC	691
685	ACCTGAAACTCAGTGTGCTGAGACCACTGCTTGTAGGACTCTGTC	744
692	COAGGTTAGCTGGAAACTCTGCAAGGAGAAACATGTAACCTATAAAGAT	751
745	ACAGGTGGTGGAACTTGTGAGGAAACATGTAACCCACACCATCAAGGCT	804
752	CCAGGAACTCTTGTGCGGAAACAAACTGACAGCTCCGAGCTGAGGCTGAACCT	811
805	CCAGGAACTCTTGTGCGGAAACAAACGGTCAAAATCCGGCTGAGAGACCT	864
812	CCCTGAAATTCAAACTAACTAAGGTGATCAGTCAGTGTGCAAGGTTGAGGCTG	871
865	CCCATACTACAAATTACAGCTGATCTGAGCTGGGAGAACATCTGAGGAGGCTG	924
872	GGCCACTCCCTCAAAAGGGTTCATGGGGAGAGGACTTACAGGTTATGCACTTGA	931
925	GGCAGACTCCCTCAAAAGGTATAGCAGGATAGAACGCTGAAAGGACTCAAACTCTACATCTCGA	984
932	CACCCCTCTAA-----TGATGGCTGTCAACATGCGATCCCGATCT	976
985	CACTCTACTGGACGGCGGTCTCCCGTGTGAGSTCAACATGAGTATCCCGATCT	104
977	ACTGCCGCTCTGCTGAGGATAGAACGCTGAAAGGTGGAGAAGTGTCTGGC	103
1045	ATGCCCGTTCTGGGAGAACAGGACGGCTCAGGGTGGAGAAATTAGATG	110
1037	ACATGGGGACGGAGGTGACTCTTACAGGAGCTCTGAACTTCTGAAACAGAAAGA	109
1105	GTACGAAAGTCGAGGTGCGCTTATACAGGACCTGAAATTCTAGCATGAGAAAGA	116
1097	GGACGCTGTCCCTGTGGGGGAAACAGTGTCAAAACCCCTAACTAAATGGT	115
1165	GGAGCGCTGTCTGTGGGGAAACGGCCCAACTGCAAGGACCCCTAACTAAATGGT	122
1157	GATGGAAAGTGGGAACTGGCTGAGACCTCAAGTGTGGAGAAATTAGATG	121
1225	GATGAAAGTGGGACCAATTACGGCTGTCAGACTCTGGAGCTAAACAGAAATGTAAGA	128
1217	GAATGATGGCTGGACCAATTACGGCTGTCAGACTCTGGAGCTAAACAGAAATGTAAGA	127
1285	GGAGGTGGGAGCAATTACGGCTTACGGCTAACAGAGTGTAAAGA	134
1337	CTGTGATGGAGCACCTGGGACCAATTACGGCTAACAGAGCTGCTGTC	139
1405	CTTCCTGATGGAGCACCCGGCTGGGACCAATTACGGCTAACAGAGCTGCT	146
1397	CCPACTACACCCCTGGGGCTGGGACCAAGGATGAGCTGCTCTAGATGGGGAT	145
1465	CCCTGCTCCACCTCTGGGGCTGACCAATTACGGCTAACAGAGCTGCT	151
1457	GAAGCAGCAGGGCTGTCAGGAGGCTTGTGAGGAGCTAACCTGGTGTGTC	151

1525	GAACAGCATGGACTGTACTGGAGAAGGGTCTGTATCCAGTCACATGTCACATTGTC 1584
1517	CATCTTCCCTCCATGTATATGCTGCCAACAGGTCCAGGGACTGAGCTGGTCAGGTC 1576
1585	CATCTTCCATCCTCACTGTTATGCTGTCCACAGGGTCACTGGATTCAGATG 1644
1577	CGGATGATGGCGTGCCTGCAATTCTACATGTTGGAGGGCCCTGGCAGAACGCCCA 1636
1645	CGGATGATGGCGCAATTCTACATGTTGGAGGGCTGGCAGAACGCCCA 1704
1637	TCTGAAACCAAGGAGGATCTTATAACCCACTATGGGCAAGGTCTGTGACATGGAC 1696
1705	TCTGTGAGAACAGGACCTATGACCCACGGGGCAAGGTCTGTGATATGGC 1764
1697	CCCTGCCCTCACTCTGTGGAATATCTTCAATTGGATGGCTTACACAAAGGCCAA 1756
1765	CCCTGCCCTCACTCTGTGGAATATCTTCAATTGGATGGCTTACATTAATTA 1824
1757	AAAGCCATGGACTCTCTGATGACAGCAATTGAGTTGACTCTCTGGAAC 1816
1825	AAAGGCCATGGACTCTTGTGATGACAGCAATTGAGTTGACTCTCTGGAAC 1884
1817	TGGAATGAAAGGAGGATGGCCGGAAAGGAGAATCCCAAGATGGCTTACGGGCCCA 1876
1885	TGCGTGGAGGAGGATGGCCGGAAAGGAGAATCCCAAGATGGCTTACGGGCCCA 1944
1877	ACGATGGAAAGCTCTGACAGATTATTACAGGTCCCTGGAAAGAACTA 1924
1945	AGGTGAAAGTGTGACAGATFACTACAGGTCTGTGAAAGACCA 1992
RESUME 10	
MMU34883	MMU34883
LOCUS	2479 bp mRNA linear ROD 08-DEC-1995
DEFINITION	Mus musculus ATP sulfurylase/APS kinase mRNA, complete cds.
ACCESSION	U34883
VERSION	U34883.1 GI:1109675
KEYWORDS	
SOURCE	Mus musculus
ORGANISM	Mus musculus
REFERENCE	Bukreyeva, Matzava, Chorlata, Cranialata, Vertebrata, Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus; Li, H., Deppry, M., Mensch, J.R. Jr., Domowicz, M., Konstantinidis, A.K.
AUTHORS	and Schwartz, N.B.
TITLE	The isolation and characterization of cDNA encoding the mouse bifunctional ATP sulfurylase/adenosine 5'-phosphosulfate kinase
JOURNAL	J. Biol. Chem. 270 (49), 29453-29459 (1995)
MEDLINE	96093345
PUBMED	7493984
REFERENCE	2 (bases 1 to 2479)
AUTHORS	Mensch, J.R.
TITLE	Direct Submission
JOURNAL	Submitted (25-AUG-1995) James R. Mensch, Pediatrics, University of Chicago, 5841 S. Maryland Ave. MC5058, Chicago, IL 60637, USA
FEATURES	Location/Qualifiers
source	1..2479 'organism="Mus musculus"' 'db_xref="taxon:10093"' 34..1908
CDS	/note="bifunctional enzyme: mediates two steps in sulfate activation: transfer of a sulfate group to ATP by ATP sulfurylase (ATP sulfate adenylyltransferase, EC 2.7.7.4) to yield adenosine 5'-phosphosulfate (APS), and the subsequent transfer of a phosphate group from ATP to APS by APS kinase (ATP adenosine-5'-phosphosulfate 3'-phosphotransferase, EC 2.7.1.25) yielding ADP and 3'-phosphoadenosine-5'-phosphosulfate (PAPS)" 'codon_start'=1 'product="ATP sulfurylase/APS kinase'" 'db_xref="IGI: AAC53328.1"' 'db_xref="IGI: AAC53328.1"'